

1

SEQUENCE LISTING

5 <110> Viney, Joanne L.
Sims, John E.
DuBose, Robert F.
Hasel, Karl W.
Hilbush, Brian S.
10 Buchner, Robert R.

<120> Gene Expression Modulated In Gastrointestinal Inflammation

<130> 99,104-A

15 <140> 60/138,487
<141> 1999-06-12

<150>
20 <151> 2000-06-09
<160> 129

<170> PatentIn Ver. 2.0

25 <210> 1
<211> 270
<212> DNA
<213> Mus musculus

30 <220>
<223> IMX2_4
<400> 1
cggacaccca gtcaggcaca agaggtctac attctctaac tcctttccag tgcttcccca 60
acggtcactt acttccagac tgcgtgtttt atttttagga gagatgtgta tattttttgt 120
35 tgctgttgtt gtttctagat agggctctcac tgtgtagccc tggtttttct ggaactcact 180
gtgtagagca agccagcctc aaactcatag atccacctgc ctctgcctcc agatcgccag 240
aattaaagtt actgccataa caccctaaaaa 270

<210> 2
40 <211> 964
<212> DNA
<213> Mus musculus

<220>
45 <223> IMX2_4 Extended Sequence
<400> 2
ggctggcagg gagccccaga tccccgtggc cttggccagc tttcccagcc ctacatggga 60
ggagagatgc cctggaccat cctgctgttt gcactctgtc ccacctggat cttggcactc 120
tccctgagcc tggctggagc tgtgctgttc tcagggtctg tggccatcac agtgctggtg 180
50 agaaaaagcta aagccaaaaa cttacagaag cagagagagc gtgaatcctg ctgggctcag 240
atcaacttca ccaatacaga catgtccttt gataactctc tgtttgctat ctccacgaaa 300
atgactcagg aagactcagt ggcaacccta gactcagggc ctcggaagag gccacacctc 360
gcatcatcct ctccggagcc ccctgagttc agcacttttc gggcctgcca gtgaggctga 420
cgaatgagga ccactttatc cagttccttc cctcccactg ccagaggctg cacatctgtc 480
55 cagagacttg gcagtggagg taggggtggg gtgggaatca agccatagct ttcttaggga 540
agcactggcc aaaggaaggg gactcctaga gttgtaacct tcctcacaga agacaagaaa 600
atgagttggg gtatcagcct caggctagac agagagccag aacctcttca cagattccca 660
gatcaccgga gaagtcacta ttgaatccgg acaccagtc aggcacaaga ggtctacatt 720
ctctaactcc tttccagtgc ttccccaacg gtcacttact tccagactgc gtgttttatt 780
60 tttaggagag atgtgtatat tttttgttgc tgttgttgtt tctagatagg gtctcactgt 840
gtagccctgg cttttctgga actcactgtg tagagcaagc cagcctcaaa ctcatagatc 900

2

cacctgcctc tgcctccaga tcgctagaat taaagttact gccataacac ctaaaaaaaaa 960
 aaaa 964

5 <210> 3
 <211> 192
 <212> DNA
 <213> Mus musculus

10 <220>
 <223> IMX2_17
 <400> 3
 cgggctctgg gtctattggt ctggatgacg tggcctgtac aggacacgag gactatctgt 60
 ggagctgctc tcaccgaggc tggctctctc ataactgtgg acaccatggg gatgctggag 120
 tcatctgttc agatgcccaa atccagagca caaccaggcc agatctgtgg cctactacta 180
 15 ctaccccaaa aa 192

20 <210> 4
 <211> 183
 <212> DNA
 <213> Mus musculus

25 <220>
 <223> IMX2_22
 <400> 4
 cggtagtggt ggagacaagg cccacggatg accctacggc cccagcaac ctctacatcc 60
 aggaatgagc cattgagagg gcatgggaaa cggatgcctg cagactccta acagacgcac 120
 tagtgggtcat gacatgacct tatctcccaa taaacttgac tttagtcttg tcatcctgaa 180
 aaa 183

30 <210> 5
 <211> 115
 <212> DNA
 <213> Mus musculus

35 <220>
 <223> IMX2_28
 <400> 5
 cggtgtactc caciaaagact tttggagagg agtttaagaa gacgcacaga catcacaagg 60
 cattcctgga ccatctcaaa ggtgttgta gctgctcctc acagaaggcc aaaaa 115

40 <210> 6
 <211> 135
 <212> DNA
 <213> Mus musculus

45 <220>
 <223> IMX2_36
 <400> 6
 cggtcattcc agatgcctac tcaacaagcc ctctctggga tcaggactcc cggttgaata 60
 50 cagatccaca ggttacctcc ctgagatata tgacattgta ccatttctgt ccccaaataa 120
 aagacagagc aaaaa 135

55 <210> 7
 <211> 474
 <212> DNA
 <213> Mus musculus

60 <220>
 <223> IMX2_36 Extended sequence
 <400> 7
 ctttcccaag atgcgactgt tcttccgtga gccctgggtg actggctggg attgttctgg 60

	gtgacttgggt	ggtgactctg	ctgattgccc	tggctgtgta	ctctctgggc	cgcttgggtct	120
	cccgagggtca	agggacagcg	gaaggggaccc	ggaaacaaca	catttgctgag	actgagtcgc	180
	cttatcagga	gcttcagggt	cagagaccag	aagtatacag	tgacctcaac	acacagaggc	240
	aatattacag	atgagcccac	tctatgcccc	tcagcggcct	gatgcccgga	tccgggtcatt	300
5	ccagatgcct	actcaacaag	ccctctcttg	gatcaggact	cccgttggaa	tacagatcca	360
	cagggtagct	ccctgagata	tctgacattg	taccatttct	gtccccaat	aaaagacaga	420
	gcaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaagggcggc	cgca	474
	<210> 8						
10	<211> 221						
	<212> DNA						
	<213> Mus musculus						
	<220>						
15	<223> IMX2_43						
	<400> 8						
	cgccaaaacc	tactcaggtt	gcaaaggact	tatgtgactt	atgtgactgt	aggaaaaaga	60
	gaaatgagtg	atcatcctgt	ggctactagc	agatttccac	tgtgcccaga	ccagtcggca	120
	ggttttgaag	gaagtatatg	aaaactgtgc	ctcagaagcc	aatgacagga	cacatgactt	180
20	tttttttcta	agtcaataa	acaatatatt	gaacagaaaa	a		221
	<210> 9						
	<211> 1377						
	<212> DNA						
25	<213> Mus musculus						
	<220>						
	<223> IMX2_43 Extended sequence						
	<400> 9						
30	ccgctccttg	cttccacacc	tgggactggt	cctgtgcctg	gctctgcact	tateccccctc	60
	cctctctgcc	agtgataatg	ggtccttgct	ggtccttgat	aacatctaca	cctccgacat	120
	cttggaatc	agcactatgg	ctaacgtctc	tgggtggggat	gtaacctata	cagtgcagggt	180
	ccccgtgaac	gattcagtca	gtgccgtgat	cctgaaagca	gtgaaggagg	acgacagccc	240
	agtgggcacc	tggagtggaa	catatgagaa	gtgcaacgac	agcagtgtct	actataactt	300
35	gacatcccaa	agccagtcgg	tcttccagac	aaactggaca	gttcttactt	ccgaggatgt	360
	gactaaaagtc	aacctgcagg	tcctcatcgt	cgtcaatcgc	acagcctcaa	agtcacccgt	420
	gaaaaatggaa	caagtacaac	cctcagcctc	aacccctatt	cctgagagtt	ctgagaccag	480
	ccagaccata	aacacgactc	caactgtgaa	cacagccaag	actacagcca	aggacacagc	540
	caacaccaca	gccgtgacca	cagccaatac	cacagccaat	accacagccg	tgaccacagc	600
40	caagaccaca	gccaaaagcc	tggccatccg	cactctcggc	agccccctgg	caggtgccct	660
	ccatatcctg	cttgtttttc	tcattagtaa	actcctcttc	taaagaaaac	tggggaagca	720
	gatctccaac	ctccaggtca	tcctcccag	ctcatttcag	gccagtgtct	aaacataccc	780
	gaatgaagggt	tttatgtcct	cagtcgcgag	ctccaccacc	ttggaccaca	gacctgcaac	840
	actagtgcac	ttgagggata	caaattgcttg	cctggatctt	tcagggcaca	aattccgctt	900
45	cttgtaaata	cttagtccat	ccatcctgcg	tgtaaacctga	agttctgact	ctcagtttaa	960
	cctgttgaca	gccaatctga	acttgtgttt	cttgccaaag	gtattcccat	gagcctcctg	1020
	gggtgtggggg	tggggaggga	atgatacctc	tttactttca	aactgatttc	agatttcttg	1080
	ccaaacctac	tcaggttgca	aaggacttat	gtgacttatg	tgactgtagg	aaaaagagaa	1140
	atgagtgatc	atcctgtggc	tactagcaga	tttccactgt	gccagacca	gtcggtaggt	1200
50	tttgaaggaa	gtatatgaaa	actgtgcctc	agaagccaat	gacaggacac	atgacttttt	1260
	ttttctaagt	caaataaaca	atatattgaa	caagaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1320
	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaa	aaaaaaa	1377
	<210> 10						
55	<211> 407						
	<212> DNA						
	<213> Mus musculus						
	<						

cggcgcgcac ggggaccaga cagcttgggt ccagcggagg ctccgctcct caacgccccca 60
 gcctcagcgt ccccgcttc tccgcaggta cttgaagctc cttggcccca cccccatct 120
 ctgaagatga gctgtgaata cgtgagcttg ggctaccagc ctgctgtcaa cctggaagac 180
 cctgattcag atgattacat caatattcct gacctatctc atctccctag ctatgccccca 240
 5 gggcccagat cttcatgcca atgagttctg cctgtttgct gatgtctagc acgttttcct 300
 tataggatcc ctgtcatggc gtatgtccta taccctaagt cgactctcac ctgactatct 360
 gaatgccttg agaatgatca attacaggct aattttttcac ccaaaaa 407

<210> 11
 <211> 655
 <212> DNA
 <213> Mus musculus

<220>
 15 <223> IMX2_46 Extended sequence
 <400> 11

gctcttttct tggtgacctc ttgaagcctc ctccagacgt gcggggccgac tagcgatgag 60
 gaggcgaggg cgggggggctt cccgcccgtt cccacacag cgccgggatg cctcgcagag 120
 gccgcgctcg cagaacaacg tctacagcgc ctgcccccg gcgcgacggg gaccagacag 180
 20 cttgggtcca gcggaggctc cgctcctcaa cgccccagcc tcagcgtecc ccgcttctcc 240
 gcaggtaactt gaagctcctt ggccccacac ccatctctg aagatgagct gtgaatacgt 300
 gagcttggggc taccagcctg ctgtcaacct ggaagaccct gattcagatg attacatcaa 360
 tatctctgac ccatctcatc tcctageta tgccccaggg cccagatctt catgccaatg 420
 agttctgcct gtttgctgat gtctagcaag ttttccttat aggatccctg tcatggcgta 480
 25 tgtcctatac cctaagtcga ctctcacctg actatctgaa tgccttgaga atgatcaatt 540
 acaggctaatt ttttcacccc attgaagccc cctgcattca tttgcgagag ttctggataa 600
 gacgtgcaga acattcaaaa aaaaaaaaaa aaaaaaaaaa aaaaagtatg cggcc 655

<210> 12
 30 <211> 337
 <212> DNA
 <213> Mus musculus

<220>
 35 <223> IMX2_48
 <400> 12

cggtcctca gtgctgcact ggtcctgctg ctgmtgctgg ccaccaacca ccaggctaca 60
 ggggctgttg tggccagtga actgcgctgt caatgcctga agaccctgcc aagggttgac 120
 ttcaagaaca tccagagctt gagtgtgacg cccccaggac ccaytgcg ccagacagaa 180
 40 gtcatagcca ctctcaaggg cggtaaaaaa gtttgcttg accctgaagc cccctggtt 240
 cagaaaaatca tccaaaagat wctgaacaaa ggcaaggcta actgacctgg aaaggaggag 300
 cctgggctgc tgtccctcaa cggaagaacc ataaaaa 337

<210> 13
 45 <211> 414
 <212> DNA
 <213> Mus musculus

<220>
 50 <223> IMX2_55
 <400> 13

cggccccgtat ctgtgtgaac tgggagctctg gctctgggat tgcagaattc tggctgaatg 60
 gaaaaccact ggggaggaag ggcttgaaga agggatacac tgtggggggg gatgcaatga 120
 tctctctagg acaagagcag gattcctatg ggggaaattt tgatgcaaag caatcctttg 180
 55 ttggggagat atgggatgtt tccttgtggg accatgtggt cccctagaa aaggatatcag 240
 acagctgtaa caatggcaac cttataaact ggcaagctct taattatgaa gacaatggct 300
 atgtggtgac taagcccaaa ctgtggcctt aagctaattg ctctatgaaa tataagtctg 360
 cttttggttc tgtaaaaatg ataatgtgca ttgcattaaa aaagcaaaga aaaa 414

60 <210> 14
 <211> 797

<212> DNA
 <213> Mus musculus

<220>

5 <223> IMX2_55 Extended Sequence

<400> 14

	gcacaatgga	gaagcttatt	gtgggcatcc	tgtttctctc	tggtctttca	ggaagtgtag	60
	cacaaacaga	catgaagggg	aaggcattta	ttttccctca	agaatcatcc	actgcctagt	120
	gtccctgata	ccgaagggtga	ggaagtcact	gcagaacttc	actctgtgta	tgaaggcctt	180
10	cacagacctg	acacgccctt	acagcatctt	ctcctacaac	acaagaacta	aggacaatga	240
	gattcttctc	tttgtggaaa	atataggaga	atacatgttc	tatgttggga	atttggttagc	300
	cattttcaaa	gcacccacaa	atcttcctga	tccagtcctg	atctgtgtga	actgggagtc	360
	tgtctctggg	attgcagaat	tctggctgaa	tggaaaacca	ctggggagga	aaggtttgaa	420
	taagggatac	acggtggggg	gtgatgcaat	gatcattata	ggacaagagc	aggattcctt	480
15	tgggggaaat	tttgatgcaa	agcaatcctt	tggtggggag	atatgggatg	tttccttgtg	540
	ggaccatgtg	gtccccctag	aaaaggtatc	agacagctgt	aacaatggca	accttataaa	600
	ctggcaagct	cttaattatg	aagacaatgg	ctatgtggtg	attaagccca	aactgtggcc	660
	ttaagctaat	tgctctatga	aatataagtc	tgcttttggtc	tctgttaaaa	tgataatgtg	720
20	cattgcatta	aaaaagcaaa	gaaatgagaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	780
	aaaaaaaaag	ggcggcc					797

<210> 15

<211> 125

<212> DNA

25 <213> Mus musculus

<220>

<223> IMX2_57

<400> 15

30	cggcgatgta	cactcgggtc	agcaagttca	gtacctggat	caaccaagtc	atggcctaca	60
	actaaactgt	ccacagatcc	gttccccatc	tcaatctaata	aaacatactc	gtctcagttc	120
	aaaaa						125

<210> 16

35 <211> 440

<212> DNA

<213> Mus musculus

<220>

40 <223> IMX2_57 Extended sequence

<400> 16

	cnttnggggc	tcacctgtgt	caccactggc	tggggccgaa	tcagtggngt	gggcaatgtg	60
	acaccagctc	gcctgcagca	agtngttcta	cccctgggtc	ctgtgaatca	gtgtcggcag	120
	tactgggggtg	cacgcattac	cgatgccatg	atatgtgcag	gtggctcagg	cgctcctca	180
45	tgtcnggggtg	actcaggagg	ccctcttgtc	tgccagaagg	gaaacacctg	ggtgcttatt	240
	gggattgtct	cctggggcac	taagaactgc	aacatacaag	caccggccat	gtacactcgg	300
	gtcagcaagt	tcagtacctg	gatcaaccaa	gtcatggcct	acaactaaac	tgtccacaga	360
	tccgttcccc	atctcaatct	aataaacata	ctcgtctcaa	aaaaaaaaaa	aaaaaaaaaa	420
50	aaaaaaaaaa	aaaaaaaaaa					440

<210> 17

<211> 223

<212> DNA

<213> Mus musculus

55

<220>

<223> IMX2_61

<400> 17

60	cgggtatggc	agggatctgg	agctcctggg	atggcgcgct	ctctctcctt	tcatttgtga	60
	ccagcatgtc	agtctgtaaa	gctccaaccc	catgctcaga	aggcaggagg	gccacatagt	120
	gaagacacca	gcccaaaacc	actggctgcc	tcttatgtgt	ggctaggggt	gggggtccagt	180

6

gagcttccca tcaaattctct gtacaacacc atccccctcaa aaa

223

<210> 18
 <211> 1225
 <212> DNA
 <213> Mus musculus

<220>
 <223> IMX2_61 Extended sequence

10 <400> 18
 aggaattcgg cacgaggcat cctactcctg tgttggcaat ggaagcagta caaagctgac 60
 tcccacacga ccacgtcact caccgttget ggtatctgca cacaccaggg tcctgtgtctc 120
 cttggtttat tctccatccc tacactacac tgggactcta tgccaggcga tgagctagct 180
 atgctcgctt tccttgtgtct cctgagtatg gcagggatct ggagctcctg ggatggcgcg 240
 15 ctctctctcc ttctatttgt gaccagcatg tcagtctgta aagctccaac cccatgctca 300
 gaaggcagga gggccacata gtgaagacac cagcccaaaa ccactggctg cctcttatgt 360
 gtggctaggg gtggggtcca gtgagcttcc catcaaactc ctgtacaaca ccatcccctc 420
 aaaaaaaagc tatccccact gtaagggacc cagacctcac attcaggaac aggtcacagg 480
 tggctatgaa caaaaattata tgttgtttct tgttctgttg gttttttttt ttacatctag 540
 20 aataaattat tttaaattatt tcatagcaag ggagagggat atttgtcatc tttttttttc 600
 ttttgaagat ttgtcatat ttttttaaga ttatgttttt atgttcttgg gctaattggag 660
 caacactgcc ccctgacaca gtgaccaccc aagcagcaaa gccgccctcg gctccttcct 720
 tcttgccctg ggagctttct ttctgatgac tcagggaact tgtgtgaatg agggagaacg 780
 cttggagatg agcttgtacc caccttagct ctacaataat tctgcttcct agaacaaaaac 840
 25 ttgaggttgt atcccagagg gaaacgggaa tcaagatacg gacctatgct tttcatatga 900
 aaccgtgcct gaagccgttt gagtgattgt ttgaatgttt cttaaattcc ttgtaccttt 960
 gtaaaaaagt aaataaaaaa taattaagaa ataaaagtta aaatagacac agaatcgtgc 1020
 aatgtaagaa tatgacaatc tactgtgggt ggtaattcct gcctgtaatc ccagttcatg 1080
 gaaggctgag gcaggaagat tgaaaattcc agaccagctt gggcaaagga gtctaagact 1140
 30 ctgcctcaac caaaataata ataaataata acaccagact cgaaaaaaa aaaaaaaaaa 1200
 aaactcgagg gggggccggg accca 1225

<210> 19
 <211> 427
 <212> DNA
 <213> Mus musculus

<220>
 <223> IMX2_63
 <400> 19

cggtgataag agcaacttcg cacgttggcg gtaccagggt actgtcaccc tgtctggaca 60
 gaaggctcact gggcacattc tagtttcttt gtttggaaat ggaggaaact ctaaacagta 120
 tgaagttttc aagggtcttc tgcagccagg tacttctcac gtcaatgaat tcgactctga 180
 45 tgtggatgtt ggagatttgc agaagggttaa atttatttgg tacaacaatg tgatcaaccc 240
 aactctaccc aaagtgggag catcaaggat cacagtggaa agaaatgatg gcagagtgtt 300
 caacttctgt agtcaagaga cagtgagga agacgtcctg ctcacactgt ctccatgtta 360
 ggaggctgct gctgtgtgac caccaagtcc cactgttgta ataaaagtct agtattaaag 420
 ccaaaaaa 427

<210> 20
 <211> 180
 <212> DNA
 <213> Mus musculus

<220>
 <223> IMX2_74
 <400> 20

cggtctcaga gattagcatg gtgggacaag ggcttctggt ctccgtgttc actctacaat 60
 cctttctggg actccccctt cctctcattg tcttaaacag caatgcttaa caagctagaa 120
 atgtgctttc ttgactactg cgtctctgtc aaaccagtaa agttttggag ccaacaaaaa 180

<210> 21
 <211> 147
 <212> DNA
 5 <213> Mus musculus

<220>
 <223> IMX2_33
 <400> 21
 10 cggtccctg tatcccaggc ttggatcctg tggaccaggg ttactgtttt accactaaca 60
 tctccttttg gctcagcatt caccgatctt tagggaaatg ctggttgaga gcaaataaat 120
 aaacgcattc atttctctat gcaaaaa 147

15 <210> 22
 <211> 124
 <212> DNA
 <213> Mus musculus

20 <220>
 <223> IMX2_64
 <400> 22
 cggtggccta acgaaagagg gagccgtcta aggtaggaca gatgattggg gttaagtcgt 60
 aacaaggat ccctacgaga acgtggggat ggatcacctc ctttctaagg agaaaaacga 120
 25 aaaa 124

30 <210> 23
 <211> 140
 <212> DNA
 <213> Mus musculus

35 <220>
 <223> IMX2_21
 <400> 23
 cggtaatga aagcgggagg ggcattggcag tatccagagt accacgagac acgtggaacc 60
 ttgtgggaat gagcggggac caccgcgtaa ggctaaatac tactcagtga ccgatagtgc 120
 acagtactgt gaaggaaaaa 140

40 <210> 24
 <211> 233
 <212> DNA
 <213> Mus musculus

45 <220>
 <223> IMX2_49
 <400> 24
 50 cgggatgtgg gaagggttaga aacgttcttt ggactgataa taggcacatg tatcgggata 60
 acatgatgga ggaatgtgat tcgtcaaaaag tttgtcctgc ggtaaagaag aaagagaaaa 120
 tcctcaaadc aagctgcatg gactagtttg tggcttcatt gaggatttca catggtcacg 180
 ttggcccat ttttttcaag aggaaaatgg ggatctttcc taatgcagaa aaa 233

55 <210> 25
 <211> 209
 <212> DNA
 <213> Mus musculus

60 <220>
 <223> IMX2_62
 <400> 25

	cggtcctggc	agacagacat	gctcattggc	tcagctttgc	atcagcacag	acttcttgta	60
	acgaagaaga	ttgtgtat	gaagctttat	tgaacactgc	cattgacgta	gattcattag	120
	aagcaaactc	acatttagat	gaagtctgga	tcaaagaagt	tataaagaag	gcaggaatga	180
	agctgaaatg	gagcaaatta	aaacaaaaa				209
5							
	<210> 26						
	<211> 348						
	<212> DNA						
	<213> Mus musculus						
10							
	<220>						
	<223> IMX2_5						
	<400> 26						
15	cggacaccat	agagaccctg	atctgtggcc	tgggcctggc	tctcggcctt	atgggctgcc	60
	tcctgggcac	cgtgctcatg	atcacaggca	cacgcaggcc	cagtatccgc	aggtaacttc	120
	tcttctgaga	aacccttgag	agatgattcc	tggcggactt	ctggaagctt	ctgcgtgctc	180
	agcggcagcc	tgtgacagtg	ttgacctcga	gtggcatcaa	cctctgttca	ccaaatccca	240
	ggagaacatt	gtgggcgcag	tctcctgccc	tggtacccca	tttcaactcac	agctccagtg	300
20	ccatccacag	ctctggcagc	cgcactaaat	tctcttaaga	gtcaaaaaa		348
	<210> 27						
	<211> 310						
	<212> DNA						
25	<213> Mus musculus						
	<220>						
	<223> IMX2_6						
	<400> 27						
30	cggacctcac	cgaccagccc	atcccagacg	ccgaccacac	ctggtatacc	gatgggagca	60
	gctttttgca	agaaggacag	cgaaaggctg	gggcagcagc	gacgactgag	accgaggtaa	120
	tctgggcgag	ggccctgcca	gctggaacgt	cagcccagcg	agccgaactg	atcgactca	180
	cccaagccct	gaaaatggca	gaaggtaaga	agctaaatgt	ttatactgac	agccgatatg	240
	ctttcgccac	ggcccatgtc	catggagaaa	tctataggag	gcgaggggtg	ctgacctcag	300
35	agggcaaaaa						310
	<210> 28						
	<211> 117						
	<212> DNA						
40	<213> Mus musculus						
	<220>						
	<223> IMX2_7						
	<400> 28						
45	cggactcggc	aaatgtgaag	aagctgatga	aagaatggga	aaagaagatc	agccaaaaga	60
	aaaagcaaaa	gagggggaaa	aacatcaaaa	gaacatgaaa	aacagaaaac	ccaaaaa	117
	<210> 29						
	<211> 234						
50	<212> DNA						
	<213> Mus musculus						
	<220>						
	<223> IMX2_8						
55	<400> 29						
	cggagcacca	catcgatcta	agagtgaagc	acgacgcgca	atcgggagaa	acaagcgaga	60
	taggaatgtc	ttacacgcgg	ggcaagacag	ttactgatac	gggcagacac	agaacaagtg	120
	aacacaacga	gcgactgcca	caaaaaaaaa	agtgcactcg	ggatgcacgt	ggcatgaaca	180
60	cttggacacc	gcagacagga	gtgaagtact	cgggactctc	cacctcccca	aaaa	234

<210> 30
 <211> 421
 <212> DNA
 <213> Mus musculus

5

<220>
 <223> IMX2_11

<400> 30

10	cggagtcgct	atgtgtccaa	gccgagctaa	ccancataga	gctgttgnat	gattttgatg	60
	agtaccccat	gccatccagc	aggatcatcaa	gtcagggtca	gatgaggtgc	aggcagggca	120
	gcaacgcaag	ttcatcagcc	acatcaagtgc	cagaaacgcc	ctgaagctgc	agaaagggaa	180
	gaagtacctc	atgtggggcc	tctcctctga	cctctgggga	gaaaagccca	acaccagcta	240
	catcattggg	aaggacacgt	gggtggagca	ctggcctgag	gcggaagaat	gccaggatca	300
15	gaagtaccag	aaacagtgcg	aagaacttgg	ggcattcaca	gaatctatgg	tggtttatgg	360
	ttgtcccaac	tgactacagc	ccagccctct	aataaagctt	cagttgtatt	tcacacaaaa	420
	a						421

<210> 31
 <211> 191
 <212> DNA
 <213> Mus musculus

20

<220>
 <223> IMX2_12

25

<400> 31

30	cggagtggca	aagaccccaa	ccacttccga	cctgctggcc	tgcctaaaag	atactgagtt	60
	ttctcttctc	gttggtccca	gtcatgctgc	cccccgagaa	gaggagcaac	tactgggttg	120
	agatattttc	taaaatctgg	atccctaaac	atcccaatgt	gctgaataaa	tacttgtgaa	180
	atgcagaaaa	a					191

<210> 32
 <211> 173
 <212> DNA
 <213> Mus musculus

35

<220>
 <223> IMX2_13

40

<400> 32

45	cggatacagc	agcagctggg	ccagctgacc	ctggaaaatc	tccagatgct	acccgagagc	60
	gaggatgagg	agagctatga	cacggagtca	gaattcacag	aggatgagct	gccctatgat	120
	gactgtgtgt	ttggaggcca	gcgtctgaca	ttataagtgg	aaagtggcaa	aaa	173

<210> 33
 <211> 311
 <212> DNA
 <213> Mus musculus

50

<220>
 <223> IMX2_15

55

<400> 33

60	cgggcccgatg	atgctaacgt	ggttcgtgac	cgtgaccttg	agggtggacac	caccctcaag	60
	agcctgagtc	agcagattga	gaacatccgc	agccccgaag	gcagccgcaa	gaaccctgcc	120
	cgcacatgcc	gcgacctcaa	gatgtgccac	tctgactgga	agagcggaga	gtactggatc	180
	gaccctaacc	aaggctgcaa	cctggacgcc	atcaaggtct	actgcaacat	ggagacaggt	240
60	cagacctgtg	tgttccctac	tcagccgtct	gtgcctcaga	agaactggta	catcagcccc	300
	aacccccaaaa	a					311

10

5 <210> 34
 <211> 138
 <212> DNA
 <213> Mus musculus

 <220>
 <223> IMX2_16

 10 <400> 34
 cgggcgatgg tgggtgtatgc ctttaatccc agcacttggg aggcagagggc agttggattt 60
 ctgagttcga ggccagtctg gtctataaaag tgagttccag gtcagccagg gctatacaga 120
 gaaattctgt cccaaaaa 138

 15 <210> 35
 <211> 99
 <212> DNA
 <213> Mus musculus

 20 <220>
 <223> IMX2_20
 <400> 35
 cggggggtgcc aggtgtgagg ccttaggact ctggctctct gagctcagct caggggttagg 60
 gcctcactgg attagaggct ctgctctaca ggataaaaa 99

 25

 <210> 36
 <211> 109
 30 <212> DNA
 <213> Mus musculus

 <220>
 <223> IMX2_23
 35 <400> 36
 cgggtcatggg aactcagtat tattaatagt cacaacatga tttcagaact agatagccct 60
 cccacaccaa gaagaatgtg agaggaagta aggtcacttt atgcaaaaa 109

 <210> 37
 <211> 313
 <212> DNA
 <213> Mus musculus

 <220>
 45 <223> IMX2_24
 <400> 37
 cggtctccat ggcttgccac tagtgtgttc gccatgttgg gataccttct tcccttgaac 60
 caaagggaga gatgtggaaa tctgctcctc tggtctcctt tttcagaaaa gcacagaaca 120
 aatctacttc agtaaattctc tcactctgcc agccaagtga gggctctgagc tcagccaacc 180
 50 cctactgtct ctcgagacct cctactctac ttgaagggtg gagctgttcc ttcttgggac 240
 tgtccactcc acctgccagt caggaccgga tccatagcaa atggaagata cagctctctt 300
 gcttacccaa aaa 313

 <210> 38
 55 <211> 325
 <212> DNA
 <213> Mus musculus

 <220>
 60 <223> IMX2_25
 <400> 38

11

5 cggtgaccat cgagaacaaa ggatccacac cccaaaccta caaggtcata agcacactta 60
 ccattctctga aatcgactgg ctgaacctga atgtgtacac ctgccgtgtg gatcacaggg 120
 gtctcacctt cttgaagaac gtgtcctcca catgtgctgc cagtcctcc acagacatcc 180
 taaccttcac catccccccc tcttttgccg acatcttctt cagcaagtcc gctaacctga 240
 cctgtctggg ctcaaacctg gcaacctatg aaaccttgga tatctctctg gcttctcaaa 300
 gtggtgaacc actggaacc aaaaa 325

<210> 39
 <211> 294
 10 <212> DNA
 <213> Mus musculus

<220>
 <223> IMX2_26
 15 <400> 39
 cggtgccctg tctgctctga gcgacctgca tgcccacaag ctgccgtgtg atccccgtcaa 60
 cttcaagctc ctgagccact gcctgctggg gacccttggct agccaccacc ctgccgattt 120
 ccccccgcg gtgcatgcct ctctggataa attccttgcc tctgtgagca ccgtgctgac 180
 ctccaagtac cgtaagctg cttctgctgg ggcttgctt ctggccatgc ctttcttctc 240
 20 tcccctgcac ctgtacctct tggctcttga ataaagcctg agtaggaata aaaa 294

<210> 40
 <211> 288
 <212> DNA
 25 <213> Mus musculus

<220>
 <223> IMX2_35
 <400> 40
 30 cgggtactggg gaggcacagg caggcggatc cctgtgagtt cagggccagc ctgggctaca 60
 gaggtagttg caggacagcc agggctacac aaagaagccc tgtcttgaga gacccaaacc 120
 ccaatctaac caaacaaaac caaaaacaaa ccaaaaaaca aaaccacaaac aaaacagggtt 180
 tttgggaatg ggttgtagtt cagaacactt gtctaataatg ggcaatgctc tgggttccat 240
 35 ctgagcatta cagaaattaa taataaacta ttttgggcat aataaaaa 288

<210> 41
 <211> 172
 <212> DNA
 40 <213> Mus musculus

<220>
 <223> IMX2_39
 <400> 41
 45 cggataacag tatgtgtatg tgctgcatgc caatgagcca agtcctggag agggagacag 60
 caattgtgtg accaggattt accactccca tgttgatgct ccaaaagata ttgcatcagg 120
 actcatagga cctctaatac tctgtaaaaa aggttctcta tataaggaaa aa 172

<210> 42
 <211> 39
 50 <212> DNA
 <213> Mus musculus

<220>
 <223> IMX2_40
 55 <400> 42
 cggcattgta gaacagtgta tatcaatgag ttacaaaaa 39

<210> 43
 <211> 150
 60 <212> DNA
 <213> Mus musculus

12

<220>
 <223> IMX2_42
 <400> 43
 5 cggccaaact ctcaattacc atagatggag aaaccaaagt attccacgac aaaaccaaatt 60
 tcacacatta tatttccaag aatccagccc ttcaaaggat aataacagga aaaaaaacia 120
 tacaaggaca gaaatcatgc cctagaaaaa 150

 <210> 44
 10 <211> 39
 <212> DNA
 <213> Mus musculus

 <220>
 15 <223> IMX2_51
 <400> 44
 cggtagggta gagtgtcgcc aaggaaaaa 39

 <210> 45
 <211> 291
 <212> DNA
 <213> Mus musculus

 <220>
 <223> IMX2_52
 <400> 45
 25 cgggtgtcctg tctgtctctga gcgacctgca tgcccacaag ctgctgtgtg atccccgtcaa 60
 cctcaagctc ctgagccact gcctgtgtgt gaccttggct agccaccacc ctgccgattt 120
 30 cccccccgcg gtgcatgcct ctctggataa attccttgcc tctgtgagca ccgtgctgac 180
 ctccaagtac cgtaaagctg ccttctgcgg ggcttgccct ctggccatgc cttctttctc 240
 tcccttgcac ctgtacctct tgggtctttga ataaagcctg agtaggaaaa a 291

 <210> 46
 35 <211> 283
 <212> DNA
 <213> Mus musculus

 <220>
 <223> IMX2_53
 <400> 46
 40 cgggttcccat atctttgagg gccctgggac cgagggcccg atgacctgtt ttttggcaca 60
 tcagttgatt gactatcagg tgggtgaagg actctgccct ttatatccct cacagagcga 120
 cactggtcag ctctatgata acccttgcca cacttagagc aaagagttag agtcctctcc 180
 45 tgtttatctg gagctctgca atctttctta aaatgcccg gctttccgca attaaaacat 240
 gtcctctgat catttctgct catggagcgg ttctgagatt gga 283

 <210> 47
 <211> 421
 50 <212> DNA
 <213> Mus musculus

 <220>
 <223> IMX2_58
 <400> 47
 55 cggcgcgtat ctgtgtgaac tgggagtcctg gctctgggat tgcagaattc tggctgaatg 60
 gaaaaccact ggggaggaag ggcttgaaga agggatacac tgtgggggggt gatgcaatga 120
 tcactctagg acaagagcag gattcctatg ggggaaattt tgatgcaaag caatcctttg 180
 ttggggagat atgggatgtt tcttctgtgg accatgtggt ccccttagaa aaggtatcag 240
 60 acagctgtaa caatggcaac cttataaact ggcaagctct taattatgaa gacaatggct 300
 atgtggtgac taagcccaaa ctgtggcctt aagctaattg ctctatgaaa tataagtctg 360

ctttttggttc tgttaaaatg ataatgtgca ttgcattaaa aaagcaaaga aatgtgaaaa 420
 a 421

5 <210> 48
 <211> 271
 <212> DNA
 <213> Mus musculus

10 <220>
 <223> IMX2_59
 <400> 48
 cggcggtgat atccagtctg gctgcaacgg tgactctgga ggaccctca actgtcccg 60
 tgacaaatggc acctggcagg tccacggtgt gaccagcttt gtgtcctcct tgggctgcaa 120
 caccctgagg aagcccacag tgttcacccg tgtctcagcc ttcattgact ggattgagga 180
 15 gaccattgcc aacaactaga tccaagggtc ggctggcaga gaggaccccc aggtcctcta 240
 aagaataaag acctttctga aagcctaaaa a 271

20 <210> 49
 <211> 418
 <212> DNA
 <213> Mus musculus

25 <220>
 <223> IMX2_60
 <400> 49
 cggctcgtat ctgtgtgaac tgggagtctg gctctgggat tgcaagaatt ctggctgaat 60
 ggaaaaccac tggggaggaa aggcttgaag aagggatata ctgtgggggg tgatgcaatg 120
 atcactctag gacaagagca ggattcctat gggggaaaatt ttgatgcaaa gcaatccttt 180
 gttggggaga tatgggatgt ttccttgttg gaccatgttg tccccctaga aaaggatatca 240
 30 gacagctgta acaatggcaa cttataaac tggcaagctc ttaattatga agacaatggc 300
 tatgttggtga ctaagcccaa actgtggcct taagctaatt gctctatgaa atataagtct 360
 gcttttggtc tgttaaaatg ataatgggca ttgcattaaa aaagcaaaga aataaaaa 418

35 <210> 50
 <211> 352
 <212> DNA
 <213> Mus musculus

40 <220>
 <223> IMX2_1
 <400> 50
 cggaaacggg gaccgctggt ggctgcggtg ctgttcatca cgggaattat cattctcact 60
 agtgggaagt gtaggcagtt gtctcaattt tgctgaatc gccacagggt agtgcggggc 120
 agcaccctga tgggcacccc agctggagcc tccaaactac accaactcac cccccctgc 180
 45 ctctccctc taccccaaga gcctacagag tgatcaacat gaaagaatcc tgaaagggaag 240
 aggccactgg agggagtcag gcttaaggct aatgggtctc ccaccctggg gagagaggtc 300
 tccctaggca ctgctgtggc tgttcagata aatccacatg gtctctcaaa aa 352

50 <210> 51
 <211> 135
 <212> DNA
 <213> Mus musculus

55 <220>
 <223> IMX2_65
 <400> 51
 cggaaacccc gaaaccaaac gagctaccta aaaacaattt tatgaatcaa ctggtctatg 60
 tggcaaaata gtgagaagat ttttaggtag aggtgaaaag cctaacgagc ttggtgatag 120
 ctgggttacc aaaaa 135

60 <210> 52

14

<211> 186
 <212> DNA
 <213> Mus musculus

5 <220>
 <223> IMX2_66
 <400> 52
 cggacggagg accacccgtg ccagaagtgt ggccacaagg aggcagtgtt ctttcagtca 60
 cacagtgcc gagctgagga cgccatgcgc ctgtactatg tttgcactgc cccacactgc 120
 10 ggccaccgct ggactgagtg atcgttcctt cttccacctg taataaatgc cagtttctac 180
 taaaaa 186

<210> 53
 <211> 216
 15 <212> DNA
 <213> Mus musculus

<220>
 <223> IMX2_68A
 20 <400> 53
 cggccgccac ccaacaactt tgtacatttc tcattctgta gcgtttgtca tgaaattgct 60
 tctccagtct aaccgcctg atgtacatct actatttcca ggagagtctg ctcccagaca 120
 ctctgccttt ccttccaaaa cctctcact cccagctcgt gcaaaactggg tacacagcag 180
 25 aaacgcaaaa taaagagggtg gctttcgcg caaaaa 216

<210> 54
 <211> 216
 <212> DNA
 <213> Mus musculus

30 <220>
 <223> IMX2_68B
 <400> 54
 cggccgccc cagaggtccg aaagaagccg agtgagggtg aagaggaggc agcctcagct 60
 35 ggaggacccc aggttaaccc aatgccagtg acagatgagg tcgtgtgacc ttcagtggct 120
 gtctacagct cctgcttgag tttctgtgga gttgtcccc cccccccagg gtgggtgtgc 180
 tcaactgtaat aaacatgatt aatagctggc taaaaa 216

<210> 55
 40 <211> 100
 <212> DNA
 <213> Mus musculus

<220>
 45 <223> IMX2_69
 <400> 55
 cggccgtgtg tgccgtagga gtgggaaact ttgcatttct ctctccttat ctttcttgta 60
 agacatccat ttaataaagt ctcatgctga gagccaaaaa 100

50 <210> 56
 <211> 312
 <212> DNA
 <213> Mus musculus

55 <220>
 <223> IMX2_71
 <400> 56
 cgggcatcca tgggttccaa ctgccactgc cccagtcttg gccagagata cccctcctgc 60
 ctgactggaa gctgcacatc tgcccactga gctttggtga aagggtccaga ggctttgggg 120
 60 acctctgttc ctggggccacc ctgcccgtgg gcacctcta ccttgggggca cgttctagca 180
 cccattcct gactcctgga agatgcactt gccccgacag ctgggcagca cggtgtcct 240

	ctgcagagac tgcctggtcc tcattgtact ttggtggctc aactgaataa agccttgtgg	300
	gaagcacaaa aa	312
5	<210> 57 <211> 374 <212> DNA <213> Mus musculus	
10	<220> <223> IMX2_72 <400> 57	
	cgggctcaac cgctgaagg tttcccaggc agctgcagac ttgaaacagt tctgtccgca	60
	gaatgctcaa catgaccctc tgctgactgg agtgtcttca agtacgaatc ccttcagacc	120
	ccagaaagtc tgctcctttt tgtagtcata tatcttgagg tttctcaaac cacttttcat	180
15	gaaccagtga atattcaaga gaactaaatt tgaagtctgt acaaaagctt ctctttaaca	240
	cgtgccataa tacactatct tctgctcgct agtccttaac atctacctct ctgaatttca	300
	tggatttctg tctcacaagg tttaactatt ttatatacac tggctgtagc atacaataaa	360
	gcatcatcca aaaa	374
20	<210> 58 <211> 251 <212> DNA <213> Mus musculus	
25	<220> <223> IMX2_73 <400> 58	
	cggttaagcat ggcaagaccc gcaagttcac cgcggttctt taccctcgcc tggaagagta	60
	ccgcaaaggc atcttttgag actggtccga ctccatctct gccctctact gcaagtgcta	120
30	ttgatgcctt gaggtctgt ctaccagcc tggccttggg aattgctgta gctccaagag	180
	ccaggaggca agatgacccc acgacctgct ctcatagctt ccctgtaata cagccctttc	240
	aaaggtaaaa a	251
35	<210> 59 <211> 248 <212> DNA <213> Mus musculus	
40	<220> <223> IMX2_2 <400> 59	
	cggaacgcc aaggaggcaga tgtgtcactc acagccttcg tcctcatcgc actgcaggaa	60
	gccagggaca tctgtgaggg gcagggtcaat agccttctct ggagcatcaa caaggcaggg	120
	gagtatatgg aagccagtta catgaacctg cagagaccat acacagtggc cattgctggg	180
45	tatgccctgg ccctgatgaa caaactggag gaaccttacc tcggcaagtt tctgaacaca	240
	gccaaaaa	248
50	<210> 60 <211> 64 <212> DNA <213> Mus musculus	
55	<220> <223> IMX2_3 <400> 60	
	cggaatggga gcggggccgt gacaccagc tagggcacaa taaagttata cttacgctga	60
60	aaaa	64

16

5 <210> 61
 <211> 121
 <212> DNA
 <213> Mus musculus
 <220>
 <223> IMX2_34
 <400> 61
 10 cgggggtgcc aggtgtgagg ccttaggact ctggctctct gagctcagct cagggtcagg 60
 gcctcgctgg atgaggggct ctgctctaca gggtaaataa aagaaaagct ttttgacagc 120
 c 121

15 <210> 62
 <211> 219
 <212> DNA
 <213> Mus musculus
 <220>
 <223> IMX2_70
 <400> 62
 25 cgggcatcta atggccagtg gcaggtgcat ggcategtga gcttcggctc ctctctgggc 60
 tgcaactacc cccgcaagcc atccgtcttc accaggggtct ccaactacat tgactggatc 120
 aactcgggtga tggcaaggaa ctaactgaag acattactgc cactgtcccc ctggaaatgc 180
 catagaaaag aaatagtaat aaagtaatta aagaatcac 219

30 <210> 63
 <211> 49
 <212> DNA
 <213> Artificial Sequence
 35 <223> Description of Artificial Sequence: synthetic
 primer
 <400> 63
 40 gaattcaact ggaagcggcc cgcaggaatt tttttttttt ttttttvnn 49
 <210> 64
 <211> 16
 <212> DNA
 <213> Artificial Sequence
 45 <223> Description of Artificial Sequence: synthetic
 primer
 <400> 64
 50 aggtcgacgg tatcgg 16
 <210> 65
 <211> 16
 <212> DNA
 55 <213> Artificial Sequence
 <223> Description of Artificial Sequence: synthetic
 primer
 60 <400> 65
 ggtcgacggg atcggn 16

7

5 <210> 66
 <211> 15
 <212> DNA
 <213> Artificial Sequence

 <223> Description of Artificial Sequence: synthetic
 primer

 10 <400> 66
 gagctccacc gcggt 15

 <210> 67
 <211> 16
 15 <212> DNA
 <213> Artificial Sequence

 <223> Description of Artificial Sequence: synthetic
 primer
 20
 <400> 67
 cgacggtatc ggnnnn 16

 <210> 68
 25 <211> 16
 <212> DNA
 <213> Artificial Sequence

 <223> Description of Artificial Sequence: synthetic
 primer
 30
 <400> 68
 cgacggtatc ggcgcg 16

 35 <210> 69
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 40 <223> Description of Artificial Sequence: synthetic
 primer

 <400> 69
 45 gatcgaatcc ggatacagca gcagctgggc 30

 <210> 70
 <211> 30
 <212> DNA
 <213> Artificial Sequence
 50
 <223> Description of Artificial Sequence: synthetic
 primer

 <400> 70
 55 gatcgaatcc gggctctggg tctattgttc 30

 <210> 71
 <211> 30
 <212> DNA
 60 <213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

<400> 71

5 gatcgaatcc gggggtgcca ggtgtgaggc 30

<210> 72

<211> 30

<212> DNA

10 <213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

<400> 72

15 gatcgaatcc ggtcatggga actcagtatt 30

<210> 73

<211> 30

20 <212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

25

<400> 73

gatcgaatcc ggtgccctgt ctgctctgag 30

<210> 74

30 <211> 30

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

35

<400> 74

gatcgaatcc ggctccctgt atcccaggct 30

<210> 75

40 <211> 30

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

45

<400> 75

50 gatcgaatcc gggggtgcca ggtgtgaggc 30

<210> 76

<211> 30

<212> DNA

55 <213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

<400> 76

gatcgaatcc ggataacagt atgtgtatgt 30

<210> 77
<211> 30
5 <212> DNA
<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic
primer
10

<400> 77
gatcgaatcc ggccaaactc tcaattacca 30

<210> 78
15 <211> 30
<212> DNA
<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic
primer
20

<400> 78
gatcgaatcc ggcgcgcacg gggaccagac 30

<210> 79
25 <211> 30
<212> DNA
<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic
primer
30

<400> 79
gatcgaatcc ggtgtcctgt ctgctctgag 30

<210> 80
35 <211> 30
<212> DNA
<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic
primer
40

<400> 80
45 gatcgaatcc ggaaaccccg aaaccaaacg 30

<210> 81
<211> 30
<212> DNA
50 <213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic
primer

<400> 81
55 gatcgaatcc ggacggagga ccaccogtgc 30

<210> 82
60 <211> 30
<212> DNA

20

<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

5

<400> 82

gacgaatcc ggccgtgtgt gccgtaggag

30

<210> 83

10

<211> 30

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

15

<400> 83

gacgaatcc gggcatctaa tggccagtgg

30

<210> 84

20

<211> 30

<212> DNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

25

<400> 84

gacgaatcc gggcatccat gggttccaac

30

30

<210> 85

<211> 30

<212> DNA

<213> Artificial Sequence

35

<220>

<223> Description of Artificial Sequence: synthetic primer

40

<400> 85

gacgaatcc ggacaccata gagaccctga

30

<210> 86

<211> 30

45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic primer

50

<400> 86

gacgaatcc ggagcaccac atcgatctaa

30

55

<210> 87

<211> 30

<212> DNA

<213> Artificial Sequence

60

<220>

22

primer

5 <400> 92
gatcgaatcc ggcgatgtac actcgggtca 30

10 <210> 93
 <211> 30
 <212> DNA
 <213> Artificial Sequence

15 <220>
 <223> Description of Artificial Sequence: synthetic
 primer

20 <400> 93
gatcgaatcc ggcgcgtatc tgtgtgaact 30

 <210> 94
 <211> 30
 <212> DNA
 <213> Artificial Sequence

25 <220>
 <223> Description of Artificial Sequence: synthetic
 primer

30 <400> 94
gatcgaatcc ggcggcgata tccagtctgg 30

 <210> 95
 <211> 30
 <212> DNA
 <213> Artificial Sequence

35 <220>
 <223> Description of Artificial Sequence: synthetic
 primer

40 <400> 95
gatcgaatcc ggtcctggca gacagacatg 30

 <210> 96
 <211> 30
 <212> DNA
45 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: synthetic
 primer

50 <400> 96
gatcgaatcc ggtgataaga gcaacttcgc 30

55 <210> 97
 <211> 30
 <212> DNA
 <213> Artificial Sequence

60 <220>
 <223> Description of Artificial Sequence: synthetic
 primer

<400> 97
gatcgaatcc ggccgccacc caacaacttt 30

5 <210> 98
<211> 30
<212> DNA
<213> Artificial Sequence

10 <220>
<223> Description of Artificial Sequence: synthetic
primer

15 <400> 98
gatcgaatcc ggccgcccgc agagggtccga 30

<210> 99
<211> 30
<212> DNA
20 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
primer

25 <400> 99
gatcgaatcc ggtaagcatg gcaagacccg 30

<210> 100
30 <211> 25
<212> DNA
<213> Artificial Sequence

<220>
35 <223> Description of Artificial Sequence: synthetic
primer

<400> 100
40 cacagccttc gtcctcatcg cactg 25

<210> 101
<211> 25
<212> DNA
<213> Artificial Sequence

45 <220>
<223> Description of Artificial Sequence: synthetic
primer

50 <400> 101
ttgttcatca gggccagggc atacc 25

<210> 102
55 <211> 25
<212> DNA
<213> Artificial Sequence

<220>
60 <223> Description of Artificial Sequence: synthetic
primer

24

<400> 102
tctgaagccc cgtgctccac ccact 25

5 <210> 103
<211> 21
<212> DNA
<213> Artificial Sequence

10 <220>
<223> Description of Artificial Sequence: synthetic
primer

15 <400> 103
tcacggcccc gctcccattc c 21

<210> 104
<211> 22
<212> DNA
<213> Artificial Sequence

20 <220>
<223> Description of Artificial Sequence: synthetic
primer

25 <400> 104
ccaagtccca ggctgtctg tt 22

<210> 105
<211> 26
<212> DNA
<213> Artificial Sequence

30 <220>
<223> Description of Artificial Sequence: synthetic
primer

35 <400> 105
tggtctccac tgtagaacc ccaaaa 25

40 <210> 106
<211> 25
<212> DNA
<213> Artificial Sequence

45 <220>
<223> Description of Artificial Sequence: synthetic
primer

50 <400> 106
acatagagct gttggatgat tttga 25

<210> 107
<211> 25
<212> DNA
<213> Artificial Sequence

55 <220>
<223> Description of Artificial Sequence: synthetic
primer

60 <400> 107

25

caagttcttc gcactgtttc tggta 25

5 <210> 108
<211> 24
<212> DNA
<213> Artificial Sequence

10 <220>
<223> Description of Artificial Sequence: synthetic
primer

<400> 108
cgacctcaag atgtgccact ctga 24

15 <210> 109
<211> 25
<212> DNA
<213> Artificial Sequence

20 <220>
<223> Description of Artificial Sequence: synthetic
primer

25 <400> 109
accagttctt ctgaggcaca gacgg 25

30 <210> 110
<211> 25
<212> DNA
<213> Artificial Sequence

35 <220>
<223> Description of Artificial Sequence: synthetic
primer

<400> 110
gaacaaagga tccacacccc aaacc 25

40 <210> 111
<211> 25
<212> DNA
<213> Artificial Sequence

45 <220>
<223> Description of Artificial Sequence: synthetic
primer

50 <400> 111
gcacatgtgg aggacacgtt cttca 25

55 <210> 112
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
primer

60 <400> 112
atgaaaaata tggaaaatga taaaa 25

26

5 <210> 113
<211> 24
<212> DNA
<213> Artificial Sequence

10 <220>
<223> Description of Artificial Sequence: synthetic
primer

<400> 113
ctaaaatggt ctacagtgtg gttt 24

15 <210> 114
<211> 25
<212> DNA
<213> Artificial Sequence

20 <220>
<223> Description of Artificial Sequence: synthetic
primer

25 <400> 114
gcccagacag aagtcatagc cactc 25

30 <210> 115
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
primer

35 <400> 115
tttatgggtc ttccgttgag ggaca 25

40 <210> 116
<211> 24
<212> DNA
<213> Artificial Sequence

45 <220>
<223> Description of Artificial Sequence: synthetic
primer

<400> 116
gagtctggct ctgggattgc agaa 24

50 <210> 117
<211> 24
<212> DNA
<213> Artificial Sequence

55 <220>
<223> Description of Artificial Sequence: synthetic
primer

60 <400> 117
cccccatagg aatcctgctc ttgt 24

5 <210> 118
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
primer

10 <400> 118
ccactgggga ggaaaggctt gaa 23

<210> 119
<211> 25
15 <212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
20 primer

<400> 119
ccacatgggc ccacaaggaa acatc 25

25 <210> 120
<211> 20
<212> DNA
<213> Artificial Sequence

30 <220>
<223> Description of Artificial Sequence: synthetic
primer

35 <400> 120
gcaggtgcat ggcacgtga 20

<210> 121
<211> 25
<212> DNA
40 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
45 primer

<400> 121
ggggacagtg gcagtaatgt cttca 25

<210> 122
50 <211> 23
<212> DNA
<213> Artificial Sequence

<220>
55 <223> Description of Artificial Sequence: synthetic
primer

<400> 122
60 tcagagatta gcatgggtggg aca 23

<210> 123

<211> 25
 <212> DNA
 <213> Artificial Sequence

5 <220>
 <223> Description of Artificial Sequence: synthetic primer

10 <400> 123
 ctggtttgac agagacgcag tagtc 25

<210> 124
 <211> 30
 <212> DNA
 15 <213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

20 <400> 124
 gatcgaatcc ggaaacgggg accgctggtg 30

<210> 125
 <211> 30
 25 <212> DNA
 <213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

30 <400> 125
 gatcgaatcc ggacctcacc gaccagccca 30

<210> 126
 35 <211> 30
 <212> DNA
 <213> Artificial Sequence

<223> Description of Artificial Sequence: synthetic primer

40 <400> 126
 gatcgaatcc ggagtggcaa agacccaac 30

45 <210> 127
 <211> 25
 <212> DNA
 <213> Artificial Sequence

50 <223> Description of Artificial Sequence: synthetic primer

<400> 127
 55 cagtgtggag gaagcctggg aggtg 25

<210> 128
 <211> 24
 <212> DNA
 60 <213> Artificial Sequence

29

<223> Description of Artificial Sequence: synthetic
primer

<400> 128

5 cacatcgggg gcaggcagac tttc

24

<210> 129

<211> 137

10 <212> PRT

<213> Mus musculus

<220>

15 <223> Translation of IMX2_4 Extended Sequences, bases 688-947

<400> 129

Gly Trp Gln Gly Ala Pro Asp Pro Arg Gly Leu Gly Gln Leu Ser Gln
1 5 10 15

20 Pro Tyr Met Gly Gly Glu Met Pro Trp Thr Ile Leu Leu Phe Ala Ser
20 25 30

Val Pro Thr Trp Ile Leu Ala Leu Ser Leu Ser Leu Ala Gly Ala Val
35 40 45

25 Leu Phe Ser Gly Leu Val Ala Ile Thr Val Leu Val Arg Lys Ala Lys
50 55 60

30 Ala Lys Asn Leu Gln Lys Gln Arg Glu Arg Glu Ser Cys Trp Ala Gln
65 70 75 80

Ile Asn Phe Thr Asn Thr Asp Met Ser Phe Asp Asn Ser Leu Phe Ala
85 90 95

35 Ile Ser Thr Lys Met Thr Gln Glu Asp Ser Val Ala Thr Leu Asp Ser
100 105 110

Gly Pro Arg Lys Arg Pro Thr Ser Ala Ser Ser Ser Pro Glu Pro Pro
115 120 125

40 Glu Phe Ser Thr Phe Arg Ala Cys Gln
130 135